

CLAIMS

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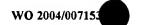
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- 1. Industrial robot having a first part (7) and a second part (5) that are arranged to be movable with respect to each other where at least one cable (11) extends from the first part (7) to the second part (5) via an internal cavity (12), **characterized** in that an excess of cable extends freely through the internal cavity (12) from the first part (7) to the second part (5).
- 2. Industrial robot according to claim 1, characterized in that said at least one cable is connected to at least one of the parts via a contact point (10) that is located inside the internal cavity (12).
 - 3. Industrial robot according to claims 1 or 2, **characterized** in that said at least one cable (11) is connected to at least one of the parts by a releasable contact (10).
 - 4. Industrial robot according to any preceding claims, characterized in that said at least one cable is secured to at least one of the parts at a point (13) located inside the internal cavity (12).
 - 5. Industrial robot according any preceding claims, **characterized** in that one of said parts rotates or pivots about the other part.
- 25 6. Industrial robot according to any preceding claims, characterized in that one of the parts comprises an electric motor (8).
 - 7. Industrial robot according to any preceding claims, characterized in that said excess of cable (11) forms an arch inside the internal cavity (12).





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- 8. Industrial robot according to any of claims 1-6, characterized in that said excess of cable (11) forms a spiral inside the internal cavity (12).
- 9. Industrial robot according to any of claims 1-6, **characterized** in that said excess of cable (11) forms an S-shape inside the internal cavity (12).
- 10. Industrial robot according to claim 9, **characterized** in that the excess of cable (11) extends along an inner wall of the internal cavity (12).
- 11. Method of connecting at least part of at least one cable (11) between a first (7) part and a second part (5) of an industrial robot which are arranged to be movable with respect to each other where said at least one cable (11) extends from a first contact/securing point (10) on the first part (7) to a second contact/securing point on the second part (5) via an internal cavity (12), characterized in that it comprises the steps of connecting/securing said at least one cable to the first contact/securing point (10),moving the first and contact/securing points into a position where they are furthest from each other, extending a length of cable (11) freely through the internal cavity (12) from the first contact/securing point (10) to the second contact/securing point (13) and connecting/securing said at least one cable to the second part (5).
- 12. Use of an industrial robot according to any of claims 1-10 in any application where a robot arm must be lightweight or able to operate in small or confined spaces.



